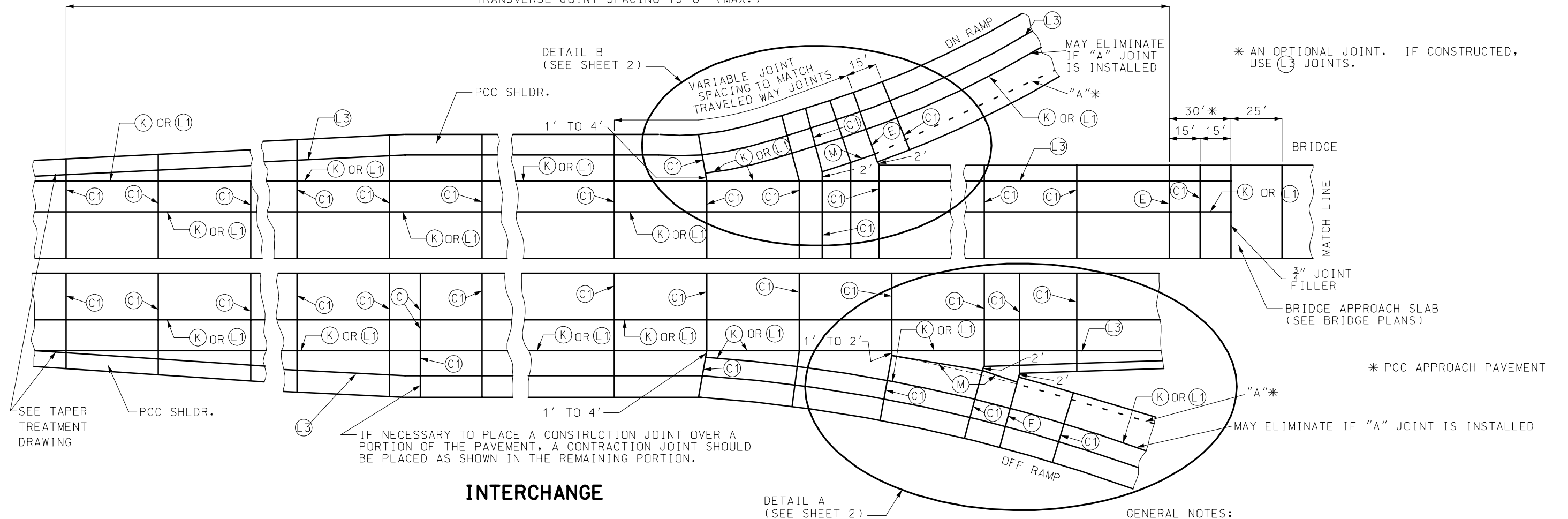


TRANSVERSE JOINT SPACING 15'-0" (MAX.)



INTERCHANGE

DETAIL A
(SEE SHEET 2)

GENERAL NOTES:

ALL TRANSVERSE JOINTS ON SHOULDERS 6" OR LESS IN THICKNESS SHALL BE C2.

THE CONTRACTOR SHALL DETERMINE THE PAVING WIDTH. (K) JOINTS SHALL BE USED BETWEEN ADJOINING SECTIONS OF PAVEMENT. (L1) JOINTS SHALL BE USED WITHIN THE PAVING WIDTH.

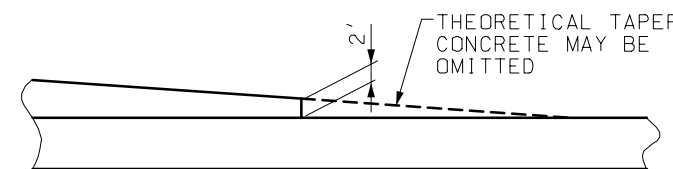
(L3) SHALL BE USED BETWEEN PAVEMENT AND SHOULDER GREATER THAN 4'. THE INTERCHANGE WILL EXTEND FROM THE BEGINNING OF THE ACCELERATION/DECELERATION LANE TO THE GORE RETURN TAPER ON THE MAINLINE. THE INTERCHANGE WILL ALSO INCLUDE THE RAMP UP TO THE BEGINNING OF THE RADIUS WITH THE ROAD INTERSECTING THE RAMP.

FOR JOINT DETAILS, SEE SHEETS NO. 3 & 4.

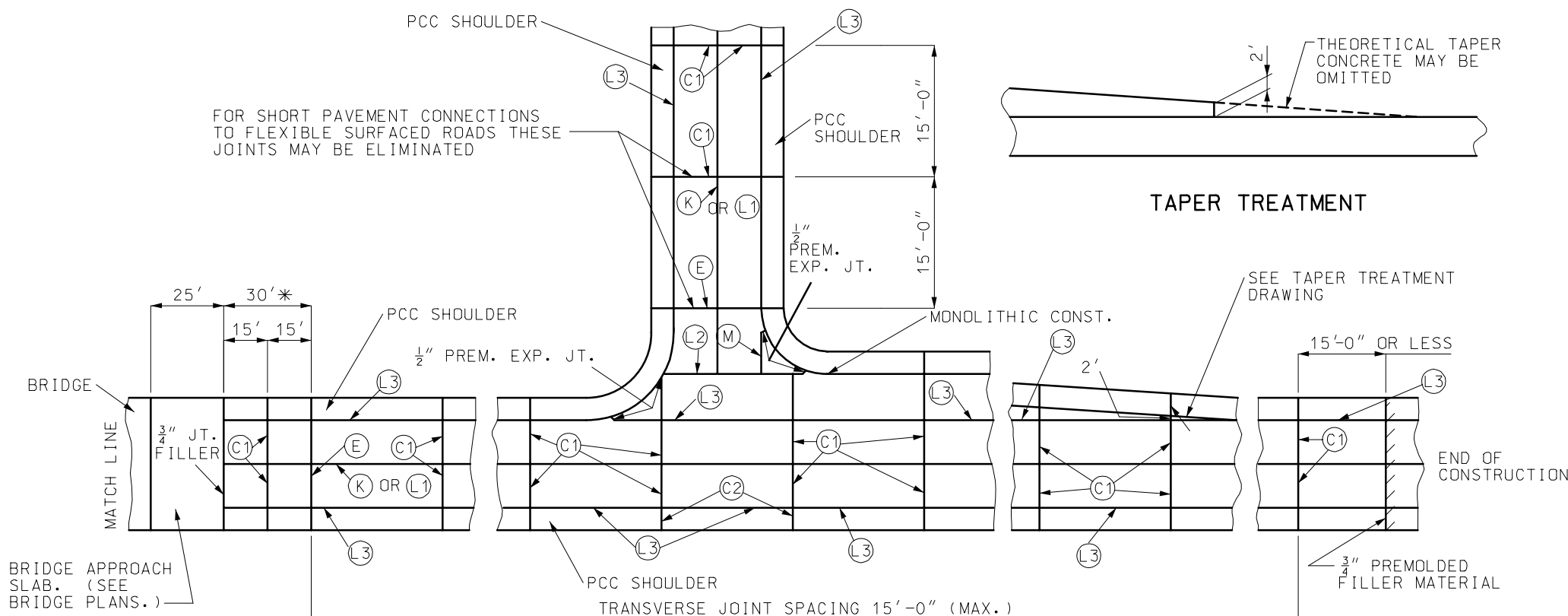
THE JOINT LAYOUT OF RAMPS IS TYPICAL FOR OUTER RAMPS OF CLOVERLEAF AND DIAMOND INTERCHANGES. SEE OTHER DRAWINGS FOR SPECIAL JOINT LAYOUTS.

JOINT SPACING SHOWN IS MAXIMUM AND IS TO BE REDUCED TO AVOID CONFLICT WITH ABUTTING STRUCTURES. JOINTS IN MULTI-LANE PAVEMENT ARE TO BE CONTINUOUS.

ALL SHOULDERS 4' OR LESS IN WIDTH SHALL BE CAST MONOLITHIC WITH THE ADJACENT LANE AND SHALL NOT HAVE A LONGITUDINAL JOINT OR TIE BARS.



TAPER TREATMENT



NON-INTERCHANGE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

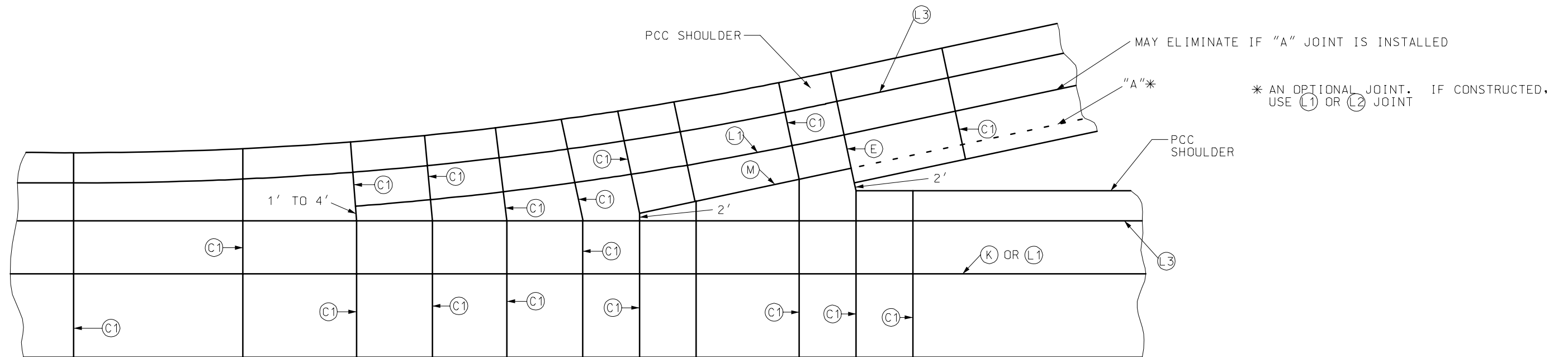
CONCRETE PAVEMENT AND BASE APPURTENANCES FOR 15 FT. JOINT SPACING

DATE: _____

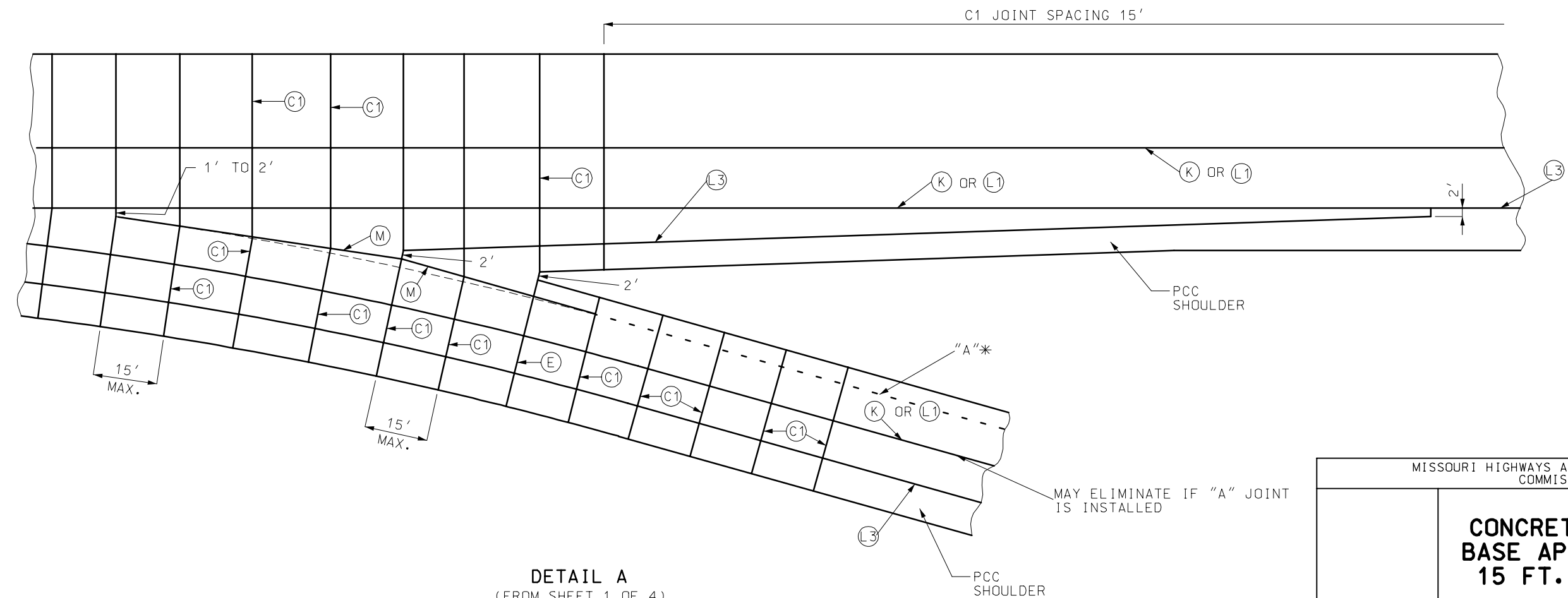
EFFECTIVE: 07-01-2006

502.05K

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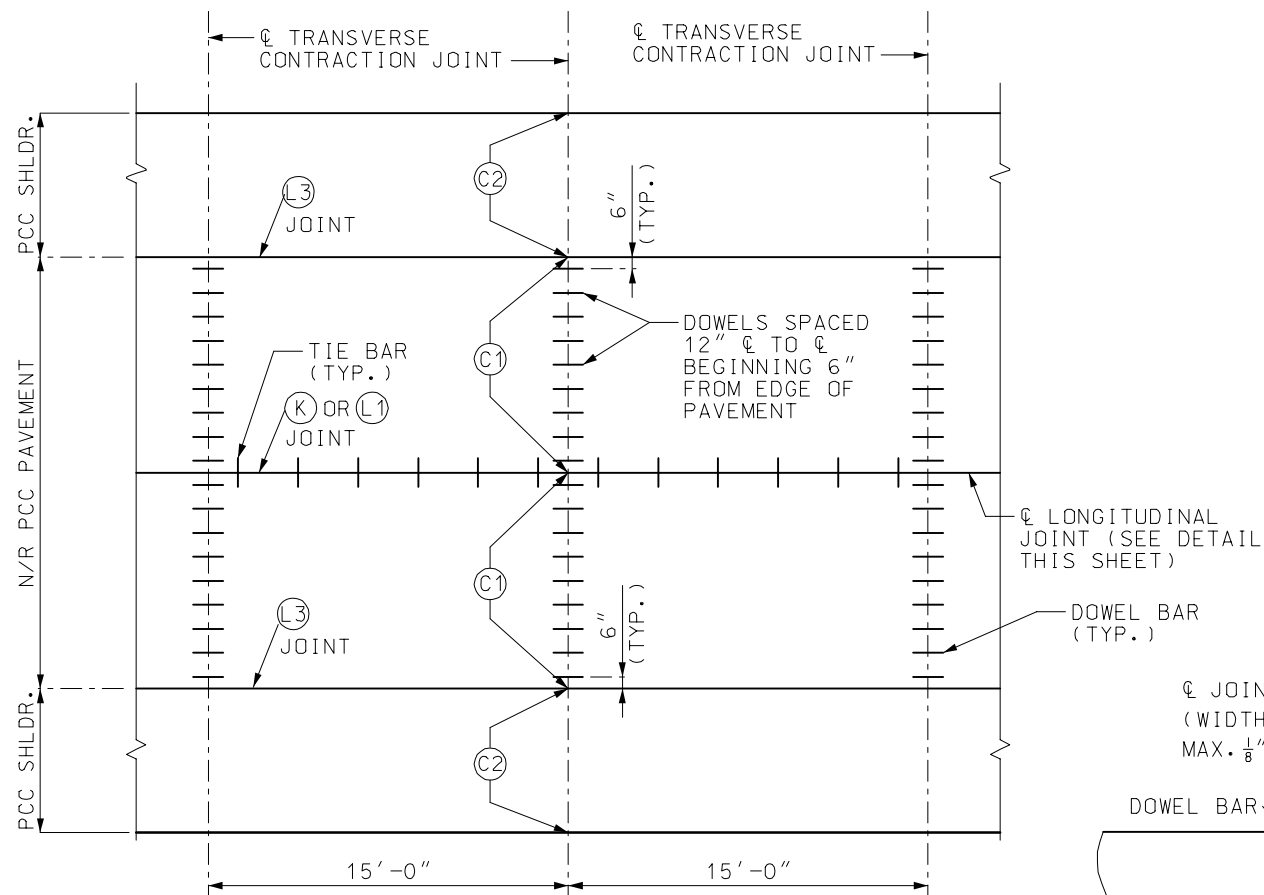


DETAIL B
(FROM SHEET 1 OF 4)



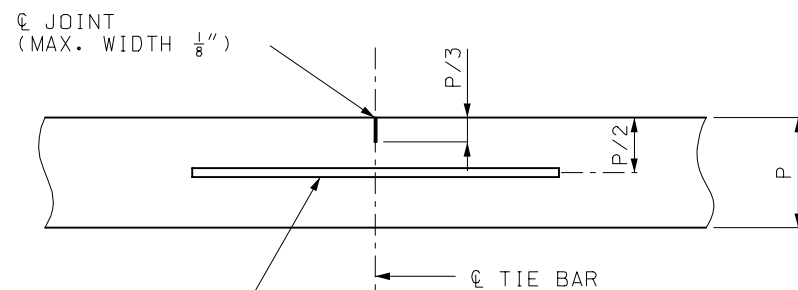
DETAIL A
(FROM SHEET 1 OF 4)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
CONCRETE PAVEMENT AND BASE APPURTENANCES FOR 15 FT. JOINT SPACING			
DATE: _____	EFFECTIVE: 07-01-2006	502.05K	2/4



JOINT PLAN AND SPACING FOR CONTRACTION JOINTS (1)

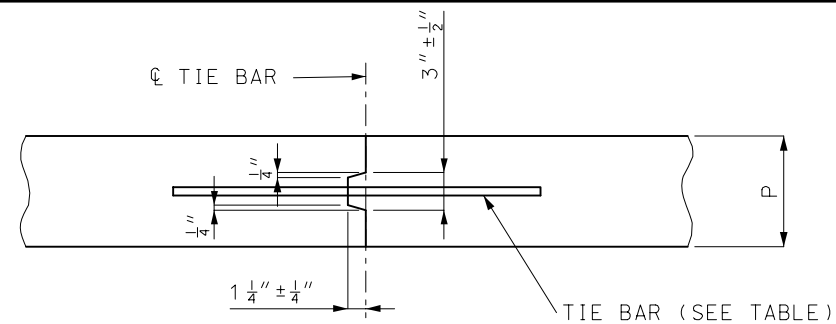
(1) LONGITUDINAL JOINT NOT REQUIRED AT INSIDE SHOULDER ON DIVIDED HIGHWAYS OR AT INSIDE SHOULDER OF RAMPS. FOR 4' OR LESS INSIDE SHOULDERS, DOWELS ARE REQUIRED FOR THE FIRST TWO FEET ADJACENT TO THE TRAVEL LANE.



TIE BAR (SEE TABLE) TIE BARS REQUIRED.

LONGITUDINAL JOINT (L1)

TIE BAR AND DOWEL TABLE				
PCCP THICKNESS (P)	DOWEL SIZE	TIE BAR SIZE	DOWEL SPACING	TIE BAR SPACING
LESS THAN 7"	NONE	#5X30"	NONE	30" CTR.-CTR.
7" TO 10"	1 1/4"X18"	#5X30"	12" CTR.-CTR.	30" CTR.-CTR.
GREATER THAN 10"	1 1/2"X18"	#6X40"	12" CTR.-CTR.	30" CTR.-CTR.



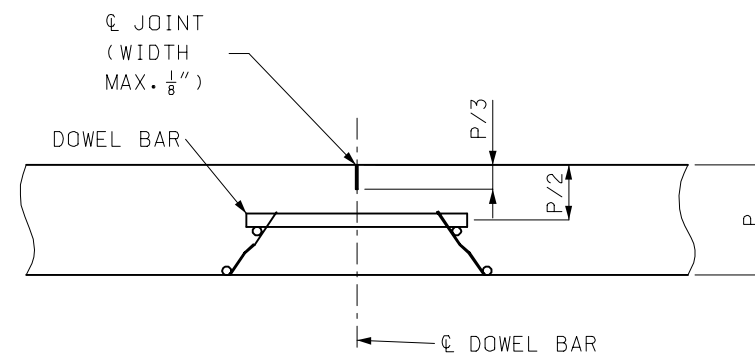
IF METAL IS USED TO FORM KEY DISCONTINUE STRIP FOR DISTANCE OF APPROXIMATELY 3" EACH SIDE OF TRANSVERSE JOINT.

TYPE (K) REQUIRES TIE BAR.

TYPE (M) CONSTRUCTED WITHOUT TIE BARS.

(K) AND (M) JOINTS SHALL NOT BE SAWED.

TONGUE AND GROOVE JOINTS (K) AND (M)

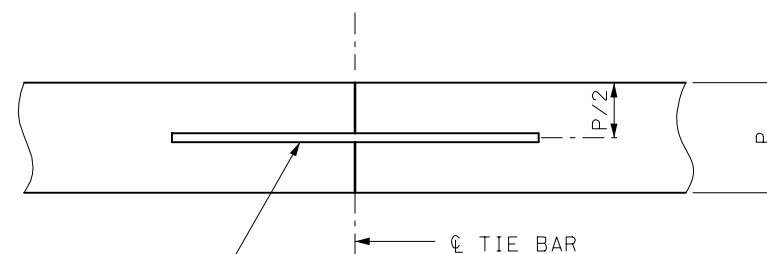


DOWELS REQUIRED. FOR PERMISSIBLE TYPES OF DOWELS SUPPORTING UNITS, SEE OTHER DRAWINGS.

TRANSVERSE CONTRACTION JOINTS FOR CONCRETE PAVEMENT OR BASE WIDENING SHALL MATCH EXISTING JOINTS.

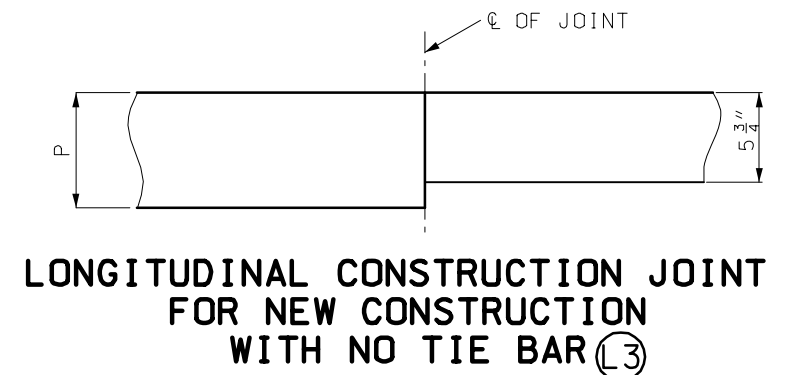
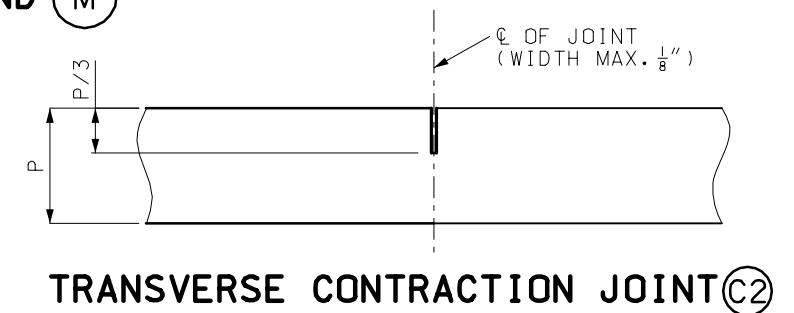
TRANSVERSE CONTRACTION JOINT (C1) (2)

(2) DOWEL BARS ARE REQUIRED FOR ALL PAVEMENTS HAVING THE SAME THICKNESS AS THE TRAVELED WAY.



TIE BAR (SEE TABLE) TIE BARS REQUIRED.

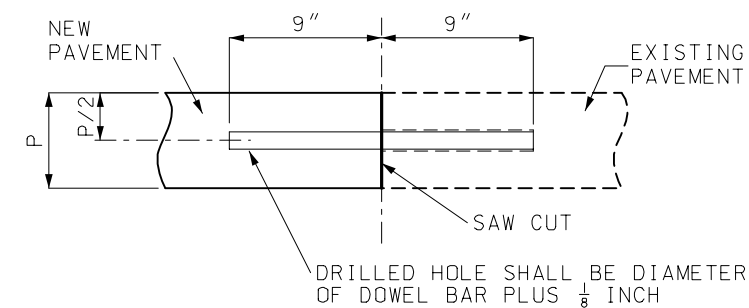
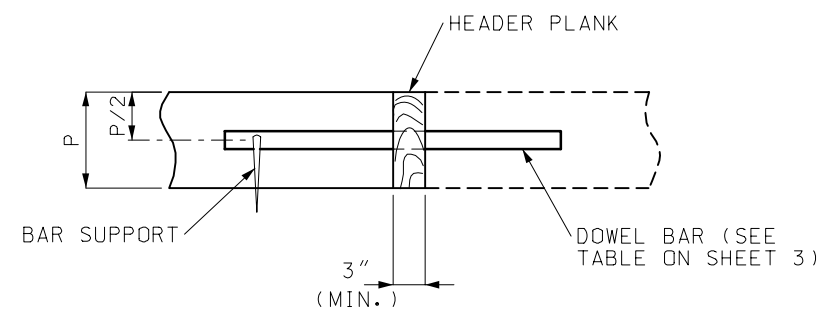
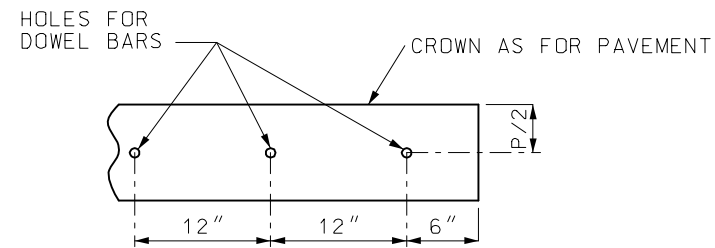
LONGITUDINAL CONSTRUCTION JOINT FOR NEW CONSTRUCTION WITH FULL DEPTH SHOULDERS (L2)



GENERAL NOTES:

THE FINAL POSITION OF ALL DOWELS AND TIE BARS SHALL BE PERPENDICULAR TO THE PLANE OF THE JOINT AND PARALLEL TO THE SURFACE OF THE PAVEMENT AND PARALLEL TO EACH OTHER.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
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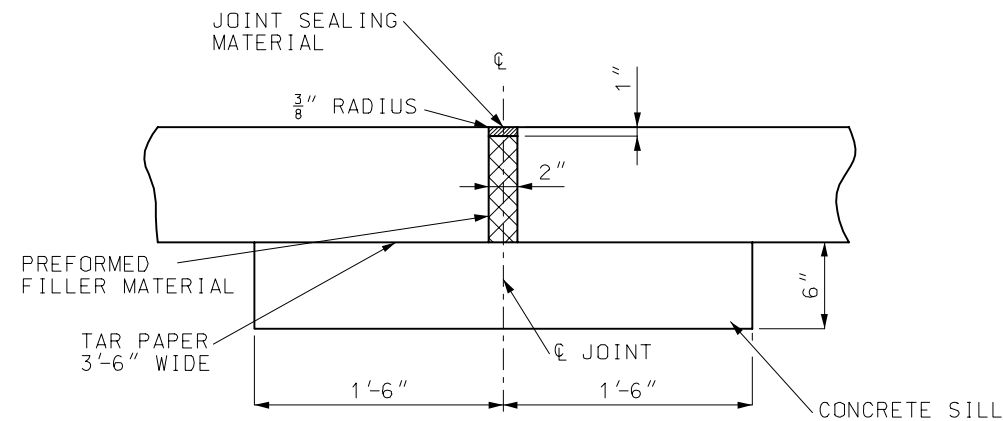
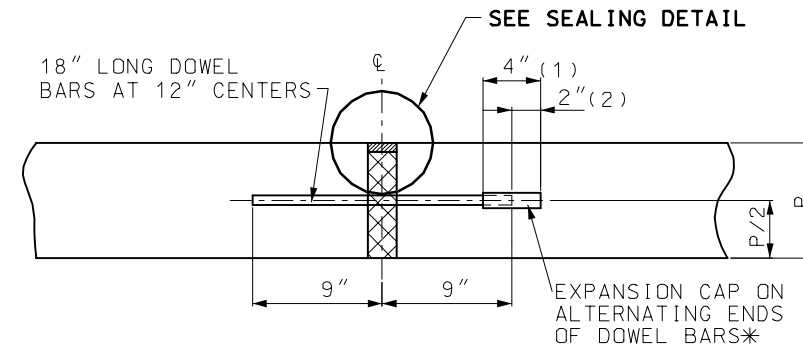
THE HEADER BOARD SHALL BE SUFFICIENTLY RIGID TO PREVENT DISTORTION FROM THE TYPICAL SECTION AND MAINTAIN A STRAIGHT LINE FROM PAVEMENT EDGE TO PAVEMENT EDGE.

THE CONSTRUCTION JOINT MAY BE SAWED FULL DEPTH.
HOLES FOR DOWEL BARS SHALL BE DRILLED AFTER THE
CONCRETE HAS SUFFICIENT SET TO PREVENT DAMAGE.
DOWEL BARS SHALL BE BONDED INTO THE HOLES.

BONDING FOR DOWEL BARS SHALL BE EPOXY OR
POLYESTER BONDING AGENTS AS SPECIFIED IN SECTION
1039.

THE PORTION OF THE DOWEL OUTSIDE THE HOLE SHALL
BE COATED WITH AN APPROVED LUBRICANT.

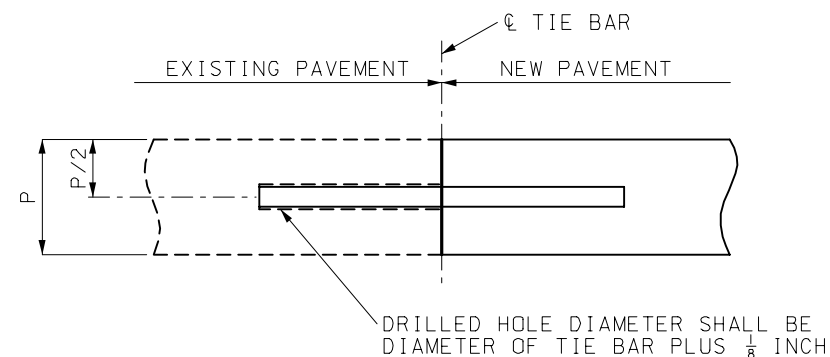
CONSTRUCTION JOINT (C)



SILL SHALL EXTEND 18" BEYOND EACH EDGE OF THE PAVEMENT AND SHALL BE CONSTRUCTED OF CONCRETE REGARDLESS OF ADJACENT BASE MATERIAL.

ALTERNATE EXPANSION JOINTS (E)

(CONTRACTOR MAY SELECT EITHER EXPANSION JOINT (E))



TIE BARS SHALL BE EPOXY COATED, DEFORMED REINFORCING BARS MEETING THE REQUIREMENTS OF SECTIONS 710 AND 1057.

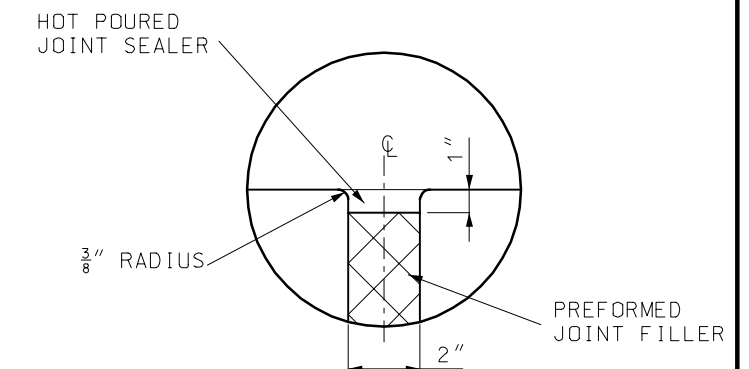
BONDING FOR TIE BARS SHALL BE EPOXY OR POLYESTER BONDING AGENTS AS SPECIFIED IN SECTION 1039.

TIE BAR SIZE AND LENGTH SHALL BE BASED ON THE THICKNESS OF THE THINNER PAVEMENT OR SHOULDER TO BE TIED TOGETHER.

(1) LENGTH OF CAP

(2) GAP BETWEEN END OF
CAP AND DOWEL.

* FOR EXPANSION JOINTS FORMED USING A CONSTRUCTION HEADER, THE EXPANSION CAPS SHALL BE INSTALLED ON THE EXPOSED END OF EACH BAR ONCE THE HEADER HAS BEEN REMOVED AND THE JOINT FILLER MATERIAL HAS BEEN INSTALLED.



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
	<p align="center">CONCRETE PAVEMENT AND BASE APPURTENANCES FOR 15' JOINT SPACING</p>		
DATE: _____	EFFECTIVE: 07-01-2006	502.05K	<div>4</div> <div>4</div>